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requests for information or courtesies were answered or referred to the proper officers of the Academy.

The following table summarizes the correspondence for the year:

COMMUNICATIONS RECEIVED.

Acknowledging receipt of the Academy's publications,	166
Transmitting publications,	65
Requests for the supply of deficiencies,	2
Invitations to learned gatherings,	12
Announcements of deaths of scientific men,	9
Circulars concerning the administration of scientific institutions, etc.,	10
Photographs of correspondents,	11
Biographies of correspondents,	8
Letters from correspondents,	7
Miscellaneous letters,	36
Total received,	326

COMMUNICATIONS FORWARDED.

Acknowledging gifts to the Library,	860
Acknowledging gifts to the Museum,	55
Acknowledging photographs and biographies,	14
Requesting the supply of deficiencies in journals,	68
Letters of sympathy and congratulation,	8
Miscellaneous letters,	64
Copies of annual reports and circulars,	326
Total sent,	1,395

Respectfully submitted,

J. PERCY MOORE,
Corresponding Secretary.

REPORT OF THE LIBRARIAN.

The Library of the Academy has been increased by the following additions during the past year:

Pamphlets and parts of periodicals,	5,715
Volumes,	1,157
Maps,	146
Photographs,	33
Manuscript,	1
Total,	7,052

They were received from the following sources:

Societies.....	2,290	Dr. William P. Wilson.....	5
I. V. Williamson Fund.....	2,397	Commission de la Belgica.....	5
Editors.....	647	Imperial Geological Survey, Japan.....	5
General Appropriation.....	340	Trustees of British Museum.....	5
United States Department of Agriculture.....	315	Department de l'Agriculture aux Indes Néerlandaises.....	5
United States Department of the Interior.....	250	Iowa Geological Survey.....	5
Authors.....	122	James F. Jones.....	5
James Aitken Meigs Fund.....	111	Department of the Interior, Canada.....	4
Edward Robins.....	106	Government of India.....	4
Department of Mines, Western Australia.....	41	Department of Mines, New South Wales.....	4
Mrs. Charles Schaeffer.....	38	Dr. J. Solis Cohen.....	4
Wilson Fund.....	27	Instituto Geologico de Mexico.....	4
Dr. H. C. Chapman.....	21	Geological Survey of Canada.....	4
Ministerio de Fomento, Peru.....	16	Geological Survey of India.....	4
University of Chicago.....	14	Bureau of American Ethnology....	3
United States Department of Commerce and Labor.....	13	Clarence B. Moore.....	3
Department of the Interior, Philippines.....	13	William J. Fox.....	3
Cape of Good Hope, Department of Agriculture.....	12	Publication Committee, Acad- emy.....	3
Swedish Government.....	12	Dr. Thomas Biddle.....	3
Department of Mines, Pennsylv- ania.....	12	Dr. Edward J. Nolan.....	3
United States Treasury Depart- ment.....	10	State Geological Survey, North Dakota.....	3
United States War Department....	10	New Zealand Government.....	3
Pennsylvania State Department of Agriculture.....	10	Comissão do Serviço Geológico de Portugal.....	3
Henryk Arctowski.....	10	Albert I de Monaco.....	2
Department of Agriculture, Jamaica.....	10	Ethnological Survey of Philip- pines.....	2
Facultad de Agronomia y Veteri- naria, La Plata.....	9	Université Catholique de Louvain	2
Ministère des Travaux Publics, France.....	8	Geological and Natural History Survey of Wisconsin.....	2
Dr. J. W. Harshberger.....	8	Department of Mines and Agri- culture, Sydney.....	2
Henry A. Pilsbry.....	8	Duc de Loubat.....	2
Sveriges Geologiska Undersök- ning.....	8	Commissioners of Fisheries and Game (Massachusetts).....	2
Geological Survey of New Jersey..	7	Department of Agriculture of India.....	2
James A. G. Rehn.....	7	Department of Mines, Victoria....	2
Biblioteca Nacional, Bogota.....	6	United States Fish Commission...	1
Library of Congress.....	5	United States Coast and Geodetic Survey.....	1

United States Public Health and Marine Hospital Service.....	1	Geological and Natural History Survey of Minnesota.....	1
Dr. W. W. Keen.....	1	Royal South African Co.....	1
Samuel Wagner.....	1	State Earthquake Investigation Commission, California.....	1
Commission Géologique, Finland..	1	Board of Scientific Advice for India.....	1
Public Library of Victoria.....	1	Pennsylvania Department of Fisheries.....	1
Maryland Geological Survey.....	1	Dr. Zawadny.....	1
Alabama Geological Survey.....	1	North Carolina Geological Survey	1
Gouvernements Kina-Ondernem- ingen, Java.....	1	Dr. Benjamin Sharp.....	1
Commission Géodesique Néer- landaise.....	1	Illinois Bureau of Labor Statis- tics.....	1
Thomas L. Montgomery.....	1	Department of Geology and Nat- ural History, Indiana.....	1
Department of Mines, Nova Scotia.....	1	Council of the Fridtjof Nansen Fund for the Advancement of Science.....	1
Imperial Department of Agricul- ture, Calcutta.....	1	Geological Commission, Cape of Good Hope.....	1
Missouri Bureau of Geology and Mines.....	1	Biologisches Anstalt, Helgoland..	1
Home Secretary's Department, Queensland.....	1		
Angelo Heilprin.....	1		
Trustees of the Indian Museum....	1		

They were distributed to the several departments of the Library as follows:

Journals.....	5,211	Anthropology.....	28
Geology.....	355	Helminthology.....	27
Agriculture.....	323	Bibliography.....	24
Botany.....	267	Ichthyology.....	20
General Natural History.....	182	Mammalogy.....	15
Geography.....	152	Physical Sciences.....	12
Voyages and Travels.....	103	Medicine.....	11
Ornithology.....	58	Herpetology.....	8
Entomology.....	54	Mineralogy.....	8
Anatomy and Physiology.....	40	Chemistry.....	1
Conchology.....	32	Miscellaneous.....	21

The general condition of the Library has been further improved by the binding of 2,010 volumes. It is hoped that in a year or so the arrearages will have received such attention that the appropriations for bindings may be largely decreased.

In compliance with the action of the Council of the Academy, 1,318 volumes were sent to the California Academy of Sciences to assist in repairing the loss inflicted by earthquake and fire on the 18th of last April. The collection included a nearly complete set of the PROCEED-

INGS and JOURNAL of the Academy bound and, in common with the other volumes, appropriately labelled so as to indicate the source and object of the gift. A letter of acknowledgment recently received conveys the assurance that the books will be an important assistance to the California Academy, the members of which, in common with all the people of San Francisco, displayed such superb courage and fortitude under an almost overwhelming affliction. The boxes were sent to California through the Smithsonian Institution.

Many duplicates received from corresponding societies had for years been accumulating in the Library of the Academy. After a selection had been sent to the California Academy, the Library Committee and the Council directed the return of the remainder to the publishing societies, in the hope that a similar favor might be secured in the case of duplicates of the Academy's publications.

Parcels therefore have been sent through the International Bureau of Exchange to 215 societies, each accompanied by the following notice: "The Academy of Natural Sciences of Philadelphia returns duplicates of publications received from corresponding societies, and requests that duplicate numbers of its JOURNAL and PROCEEDINGS be returned, either by post or through the International Bureau of Exchange." It is hoped that this action may result in an addition to the stock of the earlier issues of the Academy's publications, several of which are nearly out of print.

Seventy-eight volumes and 256 pamphlets, publications of the Department of Agriculture, U. S. Geological Survey, Bureau of Education, etc., have been returned to the Government Printing Office, in compliance with the law. The greater number of these were duplicates, but some were works not pertinent to the Academy's Library. About thirty-seven volumes belonging to the latter class were given to the Free Library of Philadelphia.

Cards have been prepared to be placed in the spaces left by books kept in the study rooms for use, thus in a measure remedying the inconvenience arising from such retention.

The necessity for additional room in some of the departments of the Library becomes annually more pressing. In view of the possibility of an increase of the Academy's building in the near future certain of the additions are placed temporarily, not always in conformity with the system of classification, in the hope that the required increase in the shelving capacity of the Library may be secured.

Ten cases are still to be shelf-listed in the department of *Journals* and *Periodicals*, although the work has continued during the year as steadily as the time at the disposal of the Assistant would permit.

Three hundred and thirty-nine lantern slides have been added to the collection as a loan from the Ludwick Institute. These are distinguished in the catalogue by blue cards.

The intelligence and reliability of my assistant, William J. Fox, in the discharge of his duties, both in the Library and in connection with the publications of the Academy, are again gladly acknowledged.

EDWARD J. NOLAN,
Librarian.

REPORT OF THE CURATORS.

The collections in the care of the Curators are in excellent condition, while much progress has been made during the year in their study and classification.

Early in the year work was begun upon the new concrete and steel roof for the Library building, for which the Academy received an appropriation of \$20,000 from the State of Pennsylvania, and by the beginning of the autumn it had been completed. The new roof is a needed improvement, being thoroughly waterproof and fireproof, while it admits an abundance of light to the Museum galleries.

This work necessitated the temporary closing of the old Museum to the public and the removal of all the collections from the upper gallery, while the cases on the lower floor had to be boarded up for their better protection. The rearrangement of the collections is now in progress and will be pushed rapidly during the coming year.

Two thousand and sixteen cubic feet of exhibition cases uniform with those previously installed have been ordered for birds, invertebrate fossils and the McCook collection of insect architecture.

A number of air-tight metal storage cases have been provided for the bird and mammal skins and for the Herbarium.

Mr. Clarence B. Moore has continued his exploration of the Indian mounds of the Gulf States and has still further enriched his unrivalled collection.

Through the liberality of Mrs. Charles Schaeffer, Mr. Stewardson Brown was enabled to spend two months collecting botanical specimens in the Canadian Rockies, where he obtained about 4,000 plants representing 700 species.

Dr. Henry Skinner visited Idaho in the interest of the Academy for